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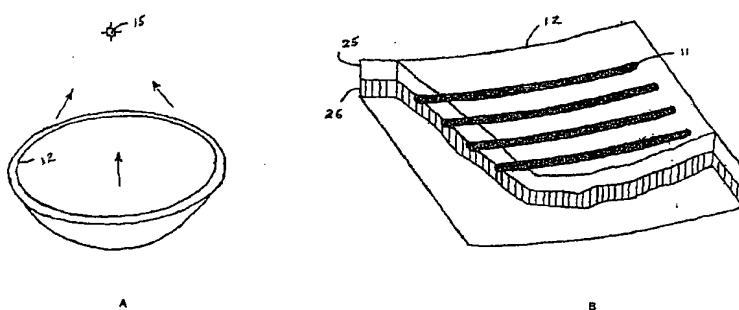
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(54) Title: RADIATOR APPARATUS



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(57) Abstract: A radiator apparatus for concentrating or dispersing energy. In one embodiment, the radiator includes a thermal conductive layer, a radiation layer, and a thermal insulation layer. The radiation layer is powered by an energy source and includes at least one radiation element embedded in at least a portion of the thermal conductive layer. The thermal insulation layer faces the thermal conductive layer. In another embodiment, the radiator includes a generally helical dome-shaped radiation member powered by an energy source and a generally dome-shaped reflection member including a reflective surface facing the radiation member. In yet another embodiment, the radiator includes a radiation member powered by an energy source and a reflection member having an at least partially ring-shaped concave reflective surface facing the radiation member for distributing energy to an at least partially h at-shaped or ring-shaped area or zone.